Ser. No. 09/931,649

INTRODUCTORY COMMENTS

This communication is in response to the Office Action dated September 14, 2004. This communication does not include amendments to the claims.

Claim History Summary:

Claims 1-31 were originally filed.

Claims 1-31 were rejected (OA 09/14/04).

Claim Summary of Present Response:

Claims 1-6, 9-10, 12-13, 15-17 and 19-31 are currently amended.

Claims 1-31 are pending.

LEE & HAYES, PLLC   2 C:\Documents and Settings\carly\Local Settings\Temporary Internet Files\OLK4\MS1-929US M01.doc

PAGE 4/17 * RCVD AT 12/14/2004 6:13:29 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/3 * DNIS:8729306 * CSID:509 323 8979 * DURATION (mm-ss):04-42

Ser. No. 09/931,649

Detailed Listing of All Claims 1-31:

1 (Currently amended). A method executing on a computer-readable medium comprising:

receiving an initial code associated with a bytecode framework, the bytecode framework having an object hierarchy; and

converting the initial code to a converted code that combines the object hierarchy of the bytecode framework with an object hierarchy of an intermediate language code framework.

2 (Currently amended). The method of claim 1 wherein the converting produces a class that inherits from a class of the bytecode framework.

3 (Currently amended). The method of claim 2 wherein the class of the bytecode framework comprises a superclass of the bytecode framework.

4 (Currently amended). The method of claim 2 wherein the class of the bytecode framework comprises a superclass named java.lang.Object.

5 (Currently amended). The method of claim 2 wherein the class of the intermediate language code framework comprises an array class.

6 (Currently amended). The method of claim 2 wherein the class of the intermediate language code framework comprises an array class named System.Array.

Lee & Hayes, pllc   3 C:\Documents and Settings\corly\Local Settings\Temporary Internet Files\OLK4\MS1-939US M01.doc

PAGE 5/17 * RCVD AT 12/14/2004 6:13:29 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/3 * DNIS:8729306 * CSID:509 323 8979 * DURATION (mm-ss):04-42

Ser. No. 09/931,649

7 (Original). The method of claim 1 wherein the converting includes creating a new class.

8 (Original). The method of claim 7 wherein the new class inherits from java.lang.Object and from System.Array.

9 (Currently amended).   A computer-readable medium storing computer-executable instructions to convert an initial code associated with a bytecode framework, the bytecode framework having an object hierarchy, to a converted code that combines the object hierarchy of the bytecode framework with an object hierarchy of an intermediate language code framework.

10 (Currently amended).   A method executing on a computer-readable medium comprising:

receiving an initial code associated with a bytecode framework, the bytecode framework having an exception hierarchy; and

converting the initial code to a converted code that combines the exception hierarchy of the bytecode framework with an exception hierarchy of an intermediate language code framework.

11 (Original).The method of claim 10 wherein the converting includes mapping exceptions.

Ser. No. 09/931,649

12 (Currently amended). A computer-readable medium storing computer-executable instructions to convert an initial code associated with a bytecode framework, the bytecode framework having an exception hierarchy, to a converted code that combines the exception hierarchy of the bytecode framework with an exception hierarchy of an intermediate language code framework.

13 (Currently amended). A method executing on a computer-readable medium comprising:

receiving an initial code associated with a bytecode framework, the bytecode framework having an exception hierarchy; and

converting the initial code to a converted code that maps the exception hierarchy of the bytecode framework to an exception hierarchy of an intermediate language code framework.

14 (Original).The method of claim 13 wherein the converting includes combining exception hierarchies.

15 (Currently amended). A computer-readable medium storing computer-executable instructions to convert an initial code associated with a bytecode framework, the bytecode framework having an exception hierarchy, to a converted code that maps the exception hierarchy of the bytecode framework with an exception hierarchy of an intermediate language code framework.

16 (Currently amended). A method executing on a computer-readable medium comprising:

LEE & HAYES. PLLC
5 C:\Documents and Settings\carly\Local Settings\Temporary Internet Files\OLK1\MS1-929US M01.doc
PAGE 7/17 * RCVD AT 12/14/2004 6:13:29 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/3 * DNIS:8729306 * CSID:509 323 8979 * DURATION (mm-ss):04-42

Ser. No. 09/931,649

receiving an initial code associated with a bytecode framework, the bytecode framework having reflection transparency; and

converting the initial code to a converted code that supports the reflection transparency of the bytecode framework on an intermediate language code framework.

17 (Currently amended). The method of claim 16 wherein the converting includes checking for methods associated with the reflection transparency of the bytecode framework.

18 (Original) The method of claim 16 wherein the converting includes rendering a stack entry transparent.

19 (Currently amended). A computer-readable medium storing computer-executable instructions to convert an initial code associated with a bytecode framework, the bytecode framework having reflection transparency, to a converted code that supports the reflection transparency of the bytecode framework on an intermediate language code framework.

20 (Currently amended). A method executing on a computer-readable medium comprising:

receiving an initial code associated with a bytecode framework, the bytecode framework having scoping; and

converting the initial code to a converted code that supports the scoping of the bytecode framework on an intermediate language code framework.

Ser. No. 09/931,649

21 (Currently amended). The method of claim 20 wherein the converting includes marking a package scope and a protected scope associated with the bytecode framework as a public scope on the intermediate language code framework.

22 (Currently amended). The method of claim 20 wherein the converting includes marking a package scope associated with the bytecode framework as an assembly on the intermediate language code framework.

23 (Currently amended). The method of claim 20 wherein the converting includes marking a protected scope associated with the bytecode framework as an assembly or a family on the intermediate language code framework.

24 (Currently amended). The method of claim 20 wherein the converting includes marking, the marking selected from a member of the group consisting of marking a protected scope associated with the bytecode framework as an assembly or a family on the intermediate language code framework; marking a package scope associated with the bytecode framework as an assembly on the intermediate language code framework; marking a package scope and a protected scope associated with the bytecode framework as a public scope on the intermediate language code framework; and combinations thereof.

25 (Currently amended). A computer-readable medium storing computer-executable instructions to convert an initial code associated with a bytecode

LEE & HAYES, PLLC 7 C:\Documents and Settings\early\Local Settings\Temporary Internet Files\OLK4\MSI-929US M01.doc

PAGE 9/17 * RCVD AT 12/14/2004 6:13:29 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/3 * DNIS:8729306 * CSID:509 323 8979 * DURATION (mm-ss):04-42

Ser. No. 09/931,649

framework, the bytecode framework having scoping, to a converted code that supports the scoping of the bytecode framework on an intermediate language code framework.

26 (Currently amended). A method executing on a computer-readable medium comprising:

receiving an initial code associated with a bytecode framework, the bytecode framework having type characteristics; and

converting the initial code to a converted code that supports the type characterisitics of the bytecode framework on an intermediate language code framework.

27 (Currently amended). The method of claim 26 wherein the converting supports type characteristics of the bytecode framework related to casting between real and integer types on the intermediate language code framework.

28 (Currently amended). The method of claim 26 wherein the converting supports type characteristics of the bytecode framework related to overflow and undefined types on the intermediate language code framework.

29 (Currently amended). A computer-readable medium storing computer-executable instructions to convert an initial code associated with a bytecode framework, the bytecode framework having type characteristics, to a converted code that supports the type characteristics of the bytecode framework on an intermediate language code framework.

LEE & HAYES, PLLC   8 C:\Documents and Settings\carly\Local Settings\Temporary Internet Files\OLK1\MSI-929US M01.doc

PAGE 10/17 * RCVD AT 12/14/2004 6:13:29 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/3 * DNIS:8729306 * CSID:509 323 8979 * DURATION (mm-ss):04-42

Ser. No. 09/931,649

30 (Currently amended).   A method executing on a computer-readable medium comprising:

receiving an initial code associated with a bytecode framework, the bytecode framework having at least one member selected from the group consisting of object hierarchies, exception hierarchies, type characteristics, reflection transparencies, and scoping; and

converting the initial code to a converted code that supports at least one of the selected members on an intermediate language code framework.

31 (Currently amended).   A computer-readable medium storing computer-executable instructions to convert an initial code associated with a bytecode framework, the bytecode framework having at least one member selected from the group consisting of object hierarchies, exception hierarchies, type characteristics, reflection transparencies, and scoping, to a converted code that supports at least one of the selected members of the bytecode framework on an intermediate language code framework.

LEE & HAYES, PLLC   9 C:\Documents and Settings\carly\Local Settings\Temporary Internet Files\OLK4\MSI-929US M01.doc

PAGE 11/17 * RCVD AT 12/14/2004 6:13:29 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/3 * DNIS:8729306 * CSID:509 323 8979 * DURATION (mm-ss):04-42